TOOL RECEIVING BOX

BACKGROUND OF THE INVENTION

The present invention is related to a tool receiving box, including a toolbox for a tool with shanks of different sizes to be held therein. The toolbox is mainly made up of a pivotally closed/opened movable lid attached to one side of a receiving box wherein the toolbox having a plurality of insertion grooves/holes of various sizes preset at large plane surfaces thereon provides an inserting seat for the shanks stored at the receiving box therein to be vertically located thereby and neatly displayed thereon in repairing work. Thus, the shank required can be easily selected and assembled onto a tool head for use without repeatedly opening/closing the movable lid of the toolbox, facilitating a fast and easy replacement of the shanks thereof, and refraining the toolbox from getting tarnished by oil or dirt in the replacement thereof. Besides, the movable lid is correspondingly closed onto the receiving box thereof in use, economically saving the space occupied by the toolbox thereof.

Please refer to Figs. 1, 2. A conventional tool receiving box includes a toolbox 10 for a tool 20 such as a T-shaped wrench, a screwdriver, or an L-shaped wrench, etc. with shanks 21 of various sizes to be held therein. The toolbox 10 is made up of a mutually separated movable lid 11 and a receiving box 12 wherein the receiving box 12 has a T-shaped tool cavity 121 indented at one inner side thereof for a tool head 22 of the tool 20 thereof to be retained therein, and a plurality of elongated grooves 122 extending axially in rows at both sides of the T-shaped tool cavity 121 thereof for the shanks 21 of various sizes to be held therein respectively.

There are some drawbacks to such conventional tool receiving box. First, the tool head 22 and one of the shanks 21 are retrieved from the toolbox 10 and assembled before the tool 20 is ready for use. In case the shank 21 selected doesn't fit in the repairing work, the closed movable lid 11 must be reopened for another shank 21 of proper size to be retrieved from the receiving box 12 thereof, which is quite troublesome in the replacement thereof. Second, the toolbox 10 can be tarnished by oil or dirt in the repeated open/close of the movable lid 11 when the shanks 21 of various sizes are retrieved for replacement, easily messing up the inner and outer surfaces the toolbox 10 thereof. Third, the movable lid 11 is inconveniently separated from the receiving box 12 when the toolbox 10 is completely opened, uneconomically occupying a lot of space in practical use.

SUMMARY OF THE PRESENT INVENTION

It is, therefore, the primary purpose of the present invention to provide a tool receiving box, including a toolbox made up of a pivotally opened/closed movable lid attached to one side of a receiving box wherein the toolbox having a plurality of insertion grooves/holes of various sizes preset at large plane surfaces thereon provides an inserting seat for shanks of different sizes stored at the receiving box therein to be vertically located thereby and neatly displayed thereon in repairing work. Thus, the shank required can be easily selected and assembled onto a tool head for use without repeatedly opening/closing the movable lid of the toolbox, facilitating a fast and easy replacement and storage of the shanks thereof.

It is, therefore, the secondary purpose of the present invention to provide a tool receiving box wherein the toolbox reversed upside down can serve as an inserting seat for the shanks of different sizes to be respectively retained at the insertion grooves/holes disposed at large plane surfaces of the toolbox thereon so that the shanks can be easily selected for assembly thereof without opening/closing the movable lid thereof, refraining the toolbox from getting tarnished by oil or dirt in the replacement of the shanks thereof.

It is, therefore, the third purpose of the present invention to provide a tool receiving box wherein the movable lid attached to one side of the receiving box thereof is correspondingly closed onto the receiving box thereof before the shanks are located into the insertion grooves/holes of various sizes respectively thereby in neat display, economically saving the space occupied by the toolbox thereof.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective bottom view of a conventional tool receiving box.

Fig. 2 is a perspective view of the conventional tool receiving box in practical use.

Fig. 3 is a perspective view of the present invention in opening status.

Fig. 4 is a perspective top view of the present invention in closing status.

Fig. 5 is a perspective bottom-side view of the present invention in closing status.

Fig. 6 is a perspective view of the present invention in practical use.

Fig. 7 is another embodiment of the present invention in opening status.

Fig. 8 is a third embodiment of the present invention in closing status.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Please refer to Figs. 3, 4. The present invention is related to a tool receiving box, comprising a toolbox 30 for a tool 20 such as a T-shaped wrench, a screw driver, or an L-shaped wrench with shanks 21 of different sizes to be held therein. The toolbox 30 is made up of a pivotally closed/opened movable lid 31 attached to one side of a receiving box 32. The receiving box 32 includes a tool retaining cavity 321 transversely indented at one inner side thereof for a tool head 22 of the tool 20 to be held therein, a plurality of elongated grooves 322 extending axially in rows at the other inner side thereof for the shanks 21 of different sizes to be adapted therein respectively, and a plane surface 323 disposed at preset space thereon. A plurality of insertion grooves 324 of various sizes are defined at the reverse side of the plane surface 323 of the receiving box 32 thereof, correspondingly matched to the shanks 21 thereof as shown in Fig. 5.

Please refer to Fig. 6. In practical use, the tool head 22 and the shanks 21 of different sizes are respectively taken out of the toolbox 30. The toolbox 30 with the movable lid 31 correspondingly closed thereon can serve as an inserting seat for the shanks 21 of different sizes to be vertically retained at the insertion grooves 324 therein respectively and neatly displayed on the toolbox 30 thereby. Thus, the shank 21 of required size is easily selected to match the tool head 22 and quickly assembled into the tool 20 for use without repeatedly opening/closing the movable lid 31 thereof, facilitating the replacement of the shanks in a fast and easy manner.

Please refer to Fig. 7. A plurality of insertion holes 324' of various sizes can also be preset at the plane surface 323 of the receiving box 32 thereon, correspondingly matched to the shanks 21 of different sizes respectively for the shanks 21 to be adapted therein from the bottom side of the receiving box 32 thereof for location thereby.

Please refer to Fig. 8. A plurality of insertion grooves 324" of various sizes can also be defined at the upper surface of the movable lid 31, correspondingly matched to the shanks 21 thereof for holding the shanks thereby respectively.